

§ 140.85

10 CFR Ch. I (1–1–16 Edition)

TOTAL PROJECTED RADIATION DOSES

Critical organ	Dose (rems)
Thyroid .....	30
Whole body .....	20
Bone marrow .....	20
Skin .....	60
Other organs or tissues .....	30

Exposures from the following types of sources of radiation shall be included:

- (1) Radiation from sources external to the body;
  - (2) Radioactive material that may be taken into the body from its occurrence in air or water; and
  - (3) Radioactive material that may be taken into the body from its occurrence in food or on terrestrial surfaces.
- (b) The Commission finds that:

- (1) Surface contamination of at least a total of any 100 square meters of off-site property has occurred as the result of a release of radioactive material from a production or utilization facility and such contamination is characterized by levels of radiation in excess of one of the values listed in Column 1 or Column 2 of the following table, or
- (2) Surface contamination of any off-site property has occurred as the result of a release of radioactive material in the course of transportation and such contamination is characterized by levels of radiation in excess of one of the values listed in column 2 of the following table:

TOTAL SURFACE CONTAMINATION LEVELS<sup>1</sup>

Type of emitter	Column 1 Offsite property, contiguous to site, owned or leased by person with whom an indemnity agreement is executed	Column 2 Other offsite property
Alpha emission from transuranic isotopes.	3.5 microcuries per square meter.	0.35 microcuries per square meter.
Alpha emission from isotopes other than transuranic isotopes.	35 microcuries per square meter.	3.5 microcuries per square meter.
Beta or gamma mission.	40 millirads/hour @ 1 cm. <sup>2</sup> .	4 millirads/hour @ 1 cm. <sup>2</sup>

<sup>1</sup> The maximum levels (above background), observed or projected, 8 or more hours after initial deposition.

<sup>2</sup> Measured through not more than 7 milligrams per square centimeter of total absorber.

§ 140.85 Criterion II—Substantial damages to persons offsite or property offsite.

(a) After the Commission has determined that an event has satisfied Criterion I, the Commission will determine that the event has resulted or will probably result in substantial damages to persons offsite or property offsite if any of the following findings are made:

- (1) The Commission finds that such event has resulted in the death or hospitalization, within 30 days of the event, of five or more people located offsite showing objective clinical evidence of physical injury from exposure to the radioactive, toxic, explosive, or other hazardous properties of source, special nuclear, or byproduct material; or
- (2) The Commission finds that \$2,500,000 or more of damage offsite has been or will probably be sustained by any one person, or \$5 million or more of such damage in the aggregate has been or will probably be sustained, as the result of such event; or
- (3) The Commission finds that \$5,000 or more of damage offsite has been or will probably be sustained by each of 50 or more persons, provided that \$1 million or more of such damage in the aggregate has been or will probably be sustained, as the result of such event.

(b) As used in paragraphs (a) (2) and (3) of this section, “damage” shall be that arising out of or resulting from the radioactive, toxic, explosive, or other hazardous properties of source, special nuclear, or byproduct material, and shall be based upon estimates of one or more of the following:

- (1) Total cost necessary to put affected property back into use,
- (2) Loss of use of affected property,
- (3) Value of affected property where not practical to restore to use,
- (4) Financial loss resulting from protective actions appropriate to reduce or avoid exposure to radiation or to radioactive materials.

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